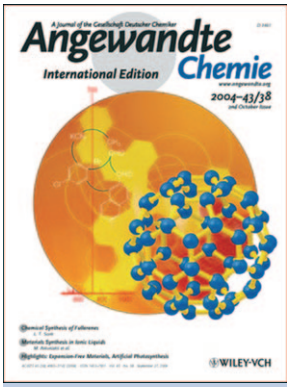
L. T. Scott

*The author presented on this page has recently published his **10th article** since 2000 in Angewandte Chemie:* "New Strategies for Synthesizing Short Sections of Carbon Nanotubes": B. D. Steinberg, L. T. Scott, *Angew. Chem.* **2009**, *121*, 5504–5507; *Angew. Chem. Int. Ed.* **2009**, *48*, 5400–5402.



L. T. Scott has been featured on the cover of Angewandte Chemie: "Methods for the Chemical Synthesis of Fullerenes": L. T. Scott, *Angew. Chem.* **2004**, *116*, 5102–5116; *Angew. Chem. Int. Ed.* **2004**, *43*, 4994–5007.

Lawrence T. Scott

Date of birth:	June 11th, 1944
Position:	Professor of Chemistry, Boston College, Chestnut Hill, Massachusetts (USA) Louise and Jim Vanderslice and Family Chair
Education:	1962–1966 Chemistry degree, research with M. Jones, Jr., Princeton University (USA) 1966–1970 PhD with R. B. Woodward, Harvard University (USA)
Previous positions:	1970–1975 University of California, Los Angeles, Assistant Professor 1975–1993 University of Nevada, Reno; Department Chairman, 1988–1991
Selected recent awards:	**1999** Alexander von Humboldt Foundation Senior Scientist Award; **2003** Japan Society for the Promotion of Science Senior Scientist Fellowship; **2003** Elected as Fellow of the American Association for the Advancement of Science; **2009** Research Achievement Award, International Society for Polycyclic Aromatic Compounds
Current research interests:	Rational chemical syntheses of fullerenes and single-chirality carbon nanotubes; synthesis and study of other carbon-rich organic compounds and materials with unusual structures and properties: molecular bowls, baskets, belts, and related nonplanar geodesic polyarenes; thermal reactions of aromatic compounds
Hobbies:	Playing the banjo and guitar and traveling with my wife

The biggest challenge facing scientists is … the capture and utilization of solar energy.

The secret of being a successful scientist is … loving to solve problems and to share new findings with others.

When I was eighteen I wanted to be … a professor of chemistry. My father was a university professor of American literature, and seeing the freedom that he enjoyed "working without a boss" as I was growing up drew me toward an academic career, even before I knew that my field would be chemistry.

My favorite piece of research is … Doering's brilliant design and prediction of bullvalene and its ability to scramble all ten of its carbon atoms thermally by degenerate Cope rearrangements.

If I could have dinner with three famous scientists from history, they would be … August Kekulé, Richard Willstätter, and Erich Hückel.

I chose chemistry as a career because … I was fascinated by the fact that an understanding of the laws of nature allows chemists to make new substances that the world has never known before. Moreover, my classmates always complained about how difficult chemistry is, and it always came easy to me.

My most exciting discovery to date has been … the first synthesis of fullerene C_{60}, uncontaminated by other fullerenes, in isolable quantities by chemical methods.

The most exciting thing about my research is … figuring out solutions to problems and then recognizing how the newly gained insights deepen our understanding of chemistry.

My work is significant because … organic chemists have an obligation to the rest of the science and engineering community to devise rational methods for synthesizing isomerically pure fullerenes of predefined structure and single-chirality, uniform diameter carbon nanotubes "made to order."

The best advice I have ever been given is … from Don Cram: "Write up your *best* work first."

My 5 top papers:

1. "A Rational Chemical Synthesis of C_{60}": L. T. Scott, M. M. Boorum, B. J. McMahon, S. Hagen, J. Mack, J. Blank, H. Wegner, A. de Meijere, *Science* **2002**, *295*, 1500–1503.
2. "Corannulene. A Convenient New Synthesis": L. T. Scott, M. M. Hashemi, D. T. Meyer, H. B. Warren, *J. Am. Chem. Soc.* **1991**, *113*, 7082–7084.
3. "Corannulene Bowl-to-Bowl Inversion is Rapid at Room Temperature": L. T. Scott, M. M. Hashemi, M. S. Bratcher, *J. Am. Chem. Soc.* **1992**, *114*, 1920–1921.
4. "Geodesic Polyarenes with Exposed Concave Surfaces": L. T. Scott, H. E. Bronstein, D. V. Preda, R. B. M. Ansems, M. S. Bratcher, S. Hagen, *Pure Appl. Chem.* **1999**, *71*, 209–219.
5. "Aromatic π-Systems More Curved Than C_{60}. The Complete Family of All Indenocorannulenes Synthesized by Iterative Microwave-Assisted Intramolecular Arylations": B. D. Steinberg, E. A. Jackson, A. S. Filatov, A. Wakamiya, M. A. Petrukhina, L. T. Scott, *J. Am. Chem. Soc.* **2009**, *131*, 10537–10545.

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